Figure 15. Trend in National Emissions, SULFUR DIOXIDE, VOLATILE ORGANIC COMPOUNDS, and NITROGEN OXIDES (1900 to 1997)

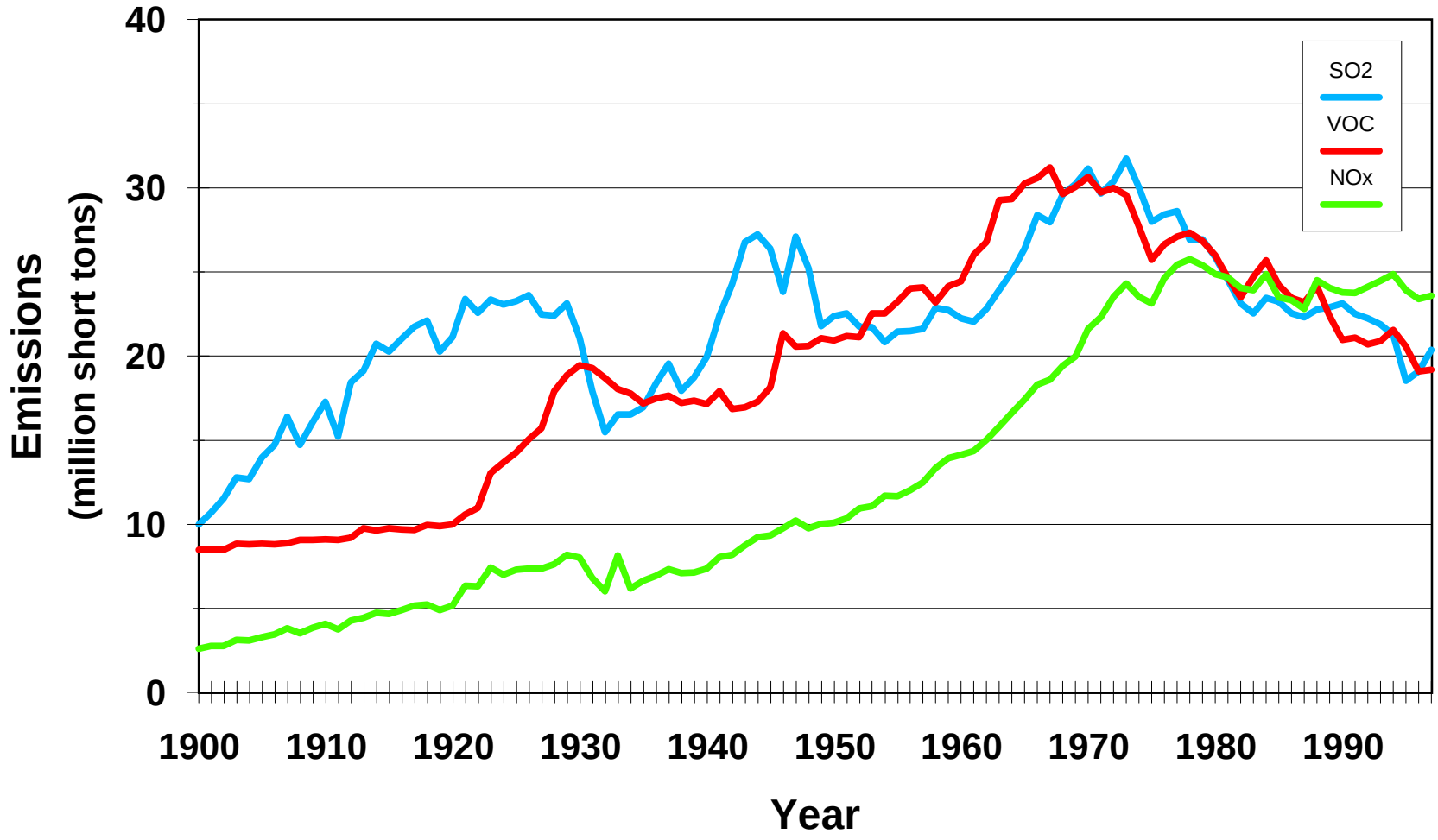


Figure 16. Trend in National Emissions, CARBON MONOXIDE (1940 to 1997), LEAD (1970 to 1997)

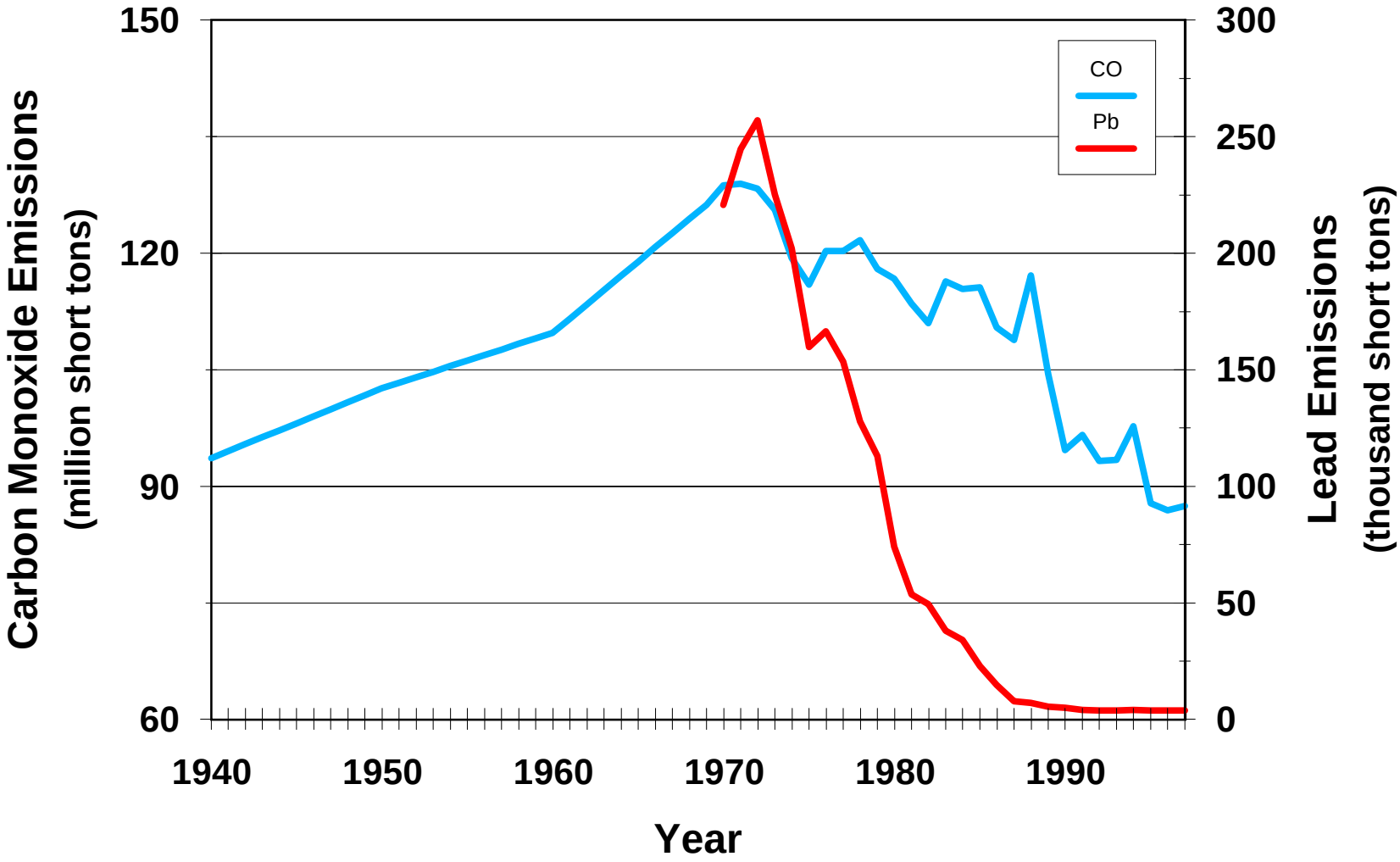


Figure 17. Trend in National Emissions, PARTICULATE MATTER (non-fugitive dust sources), PM-10 (1940 to 1997), and PM-2.5 and AMMONIA (1990 to 1997)

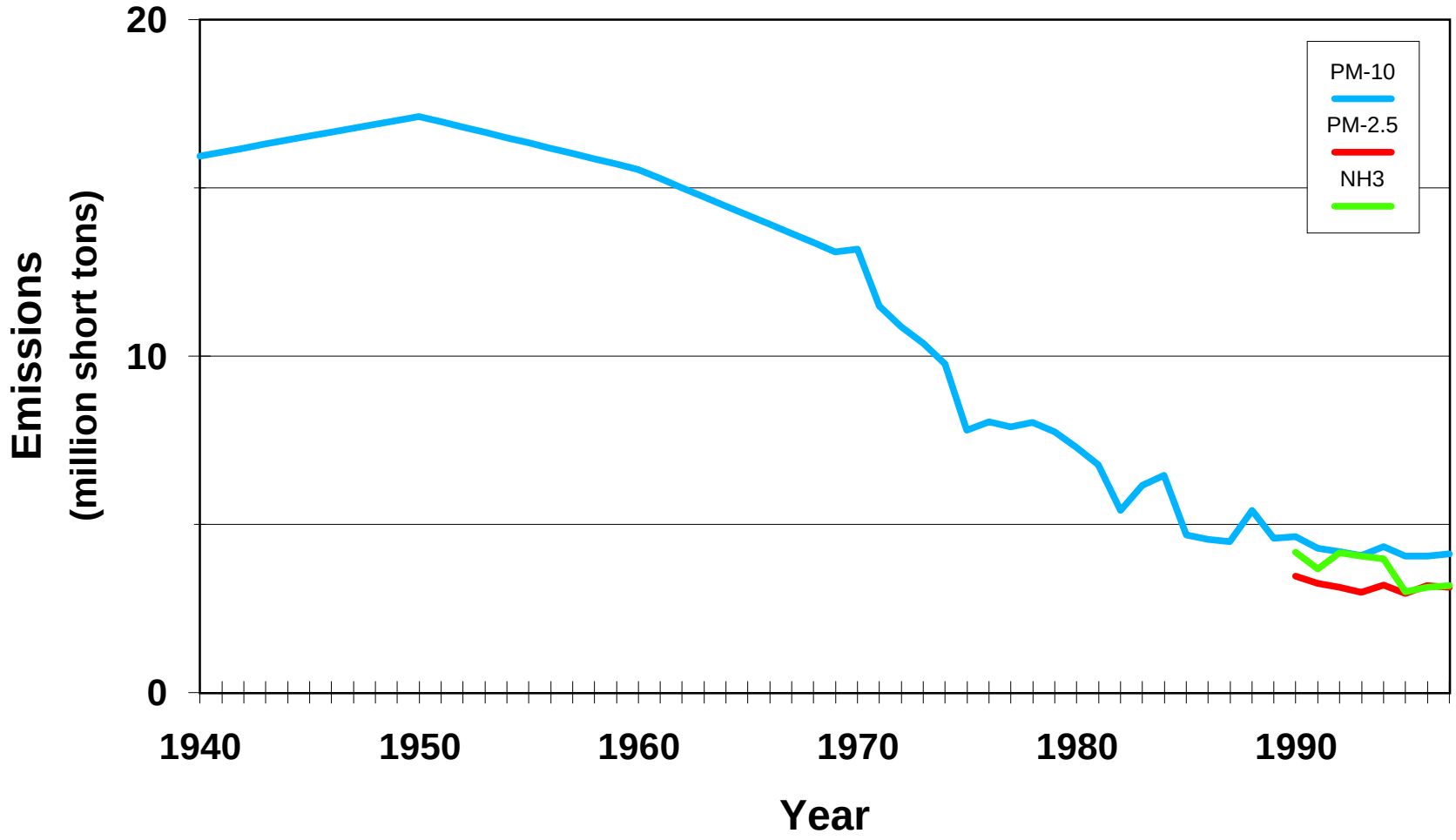


Figure 18. Trend in National Emissions, FUGITIVE DUST PM-10 (1985 to 1997), and FUGITIVE DUST PM-2.5 (1990 to 1997)

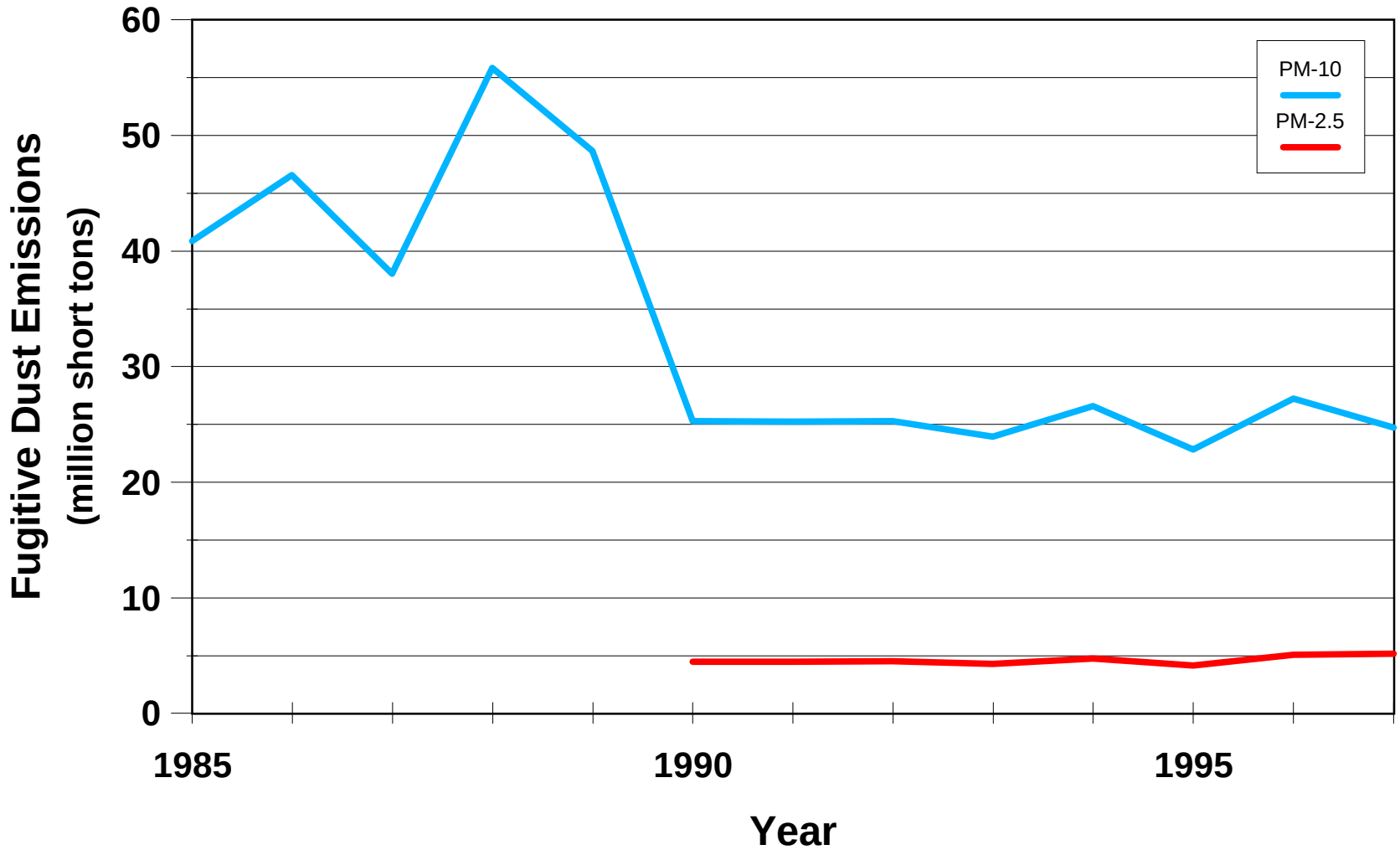


Figure 19. Trend in CARBON MONOXIDE Emissions by 7 Principal Source Categories, 1940 to 1997
(reading legend left to right corresponds to plotted series from top to bottom)

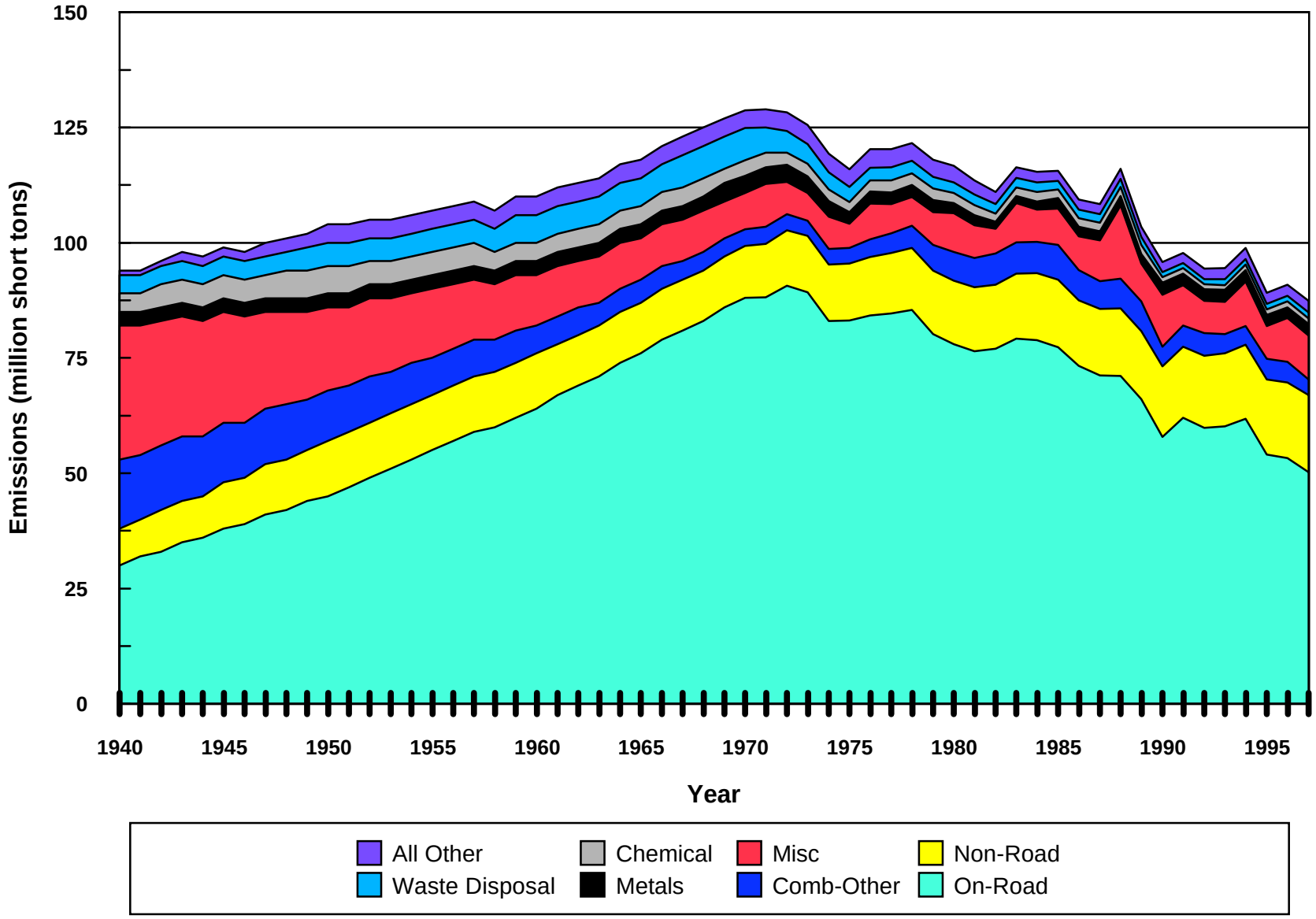


Figure 20. Trend in NITROGEN OXIDE Emissions by 7 Principal Source Categories, 1940 to 1997
(reading legend left to right corresponds to plotted series from top to bottom)

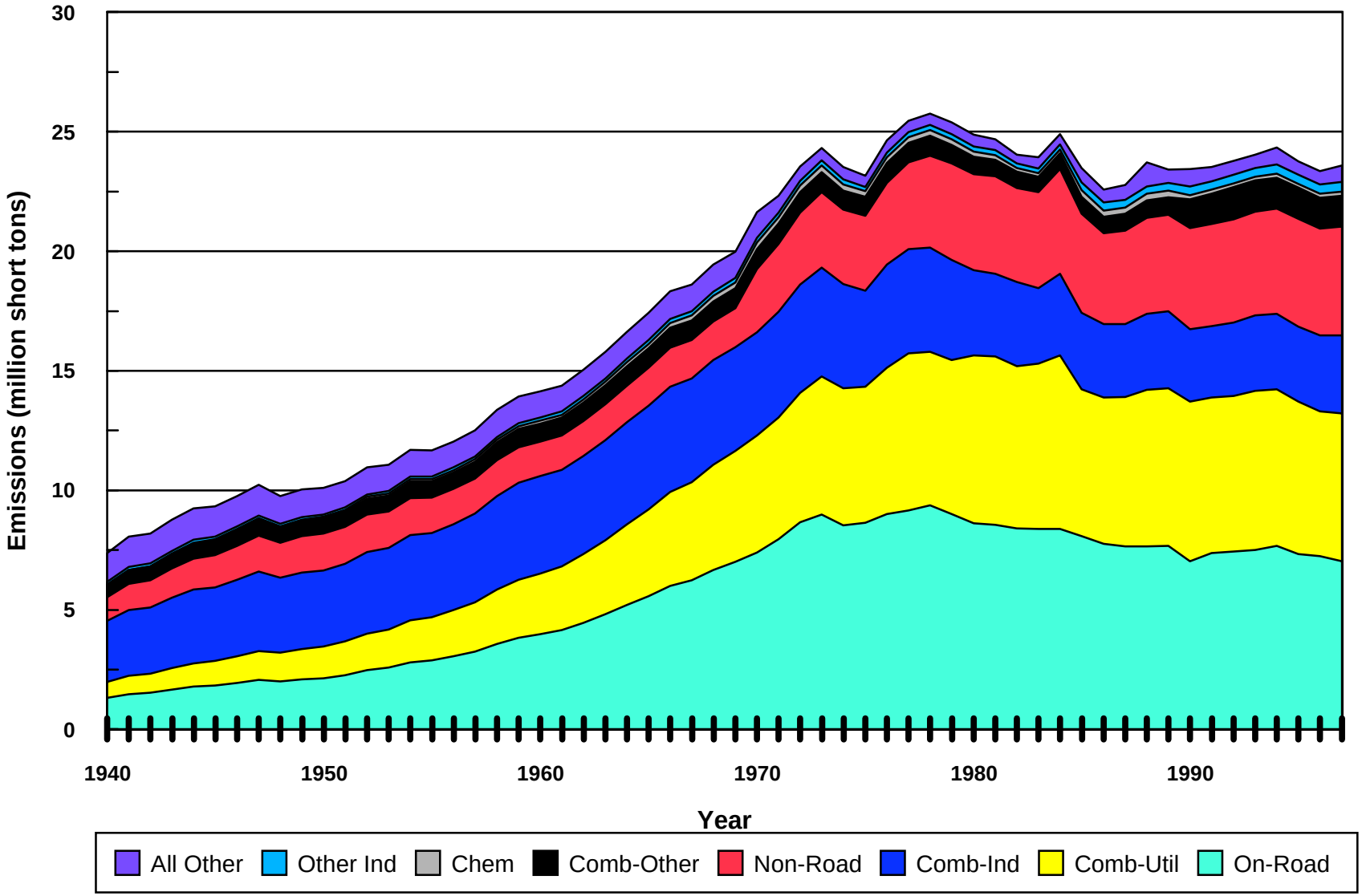


Figure 21. Trend in VOLATILE ORGANIC COMPOUND Emissions by 7 Principal Categories, 1940 to 1997
(reading legend left to right corresponds to plotted series from top to bottom)

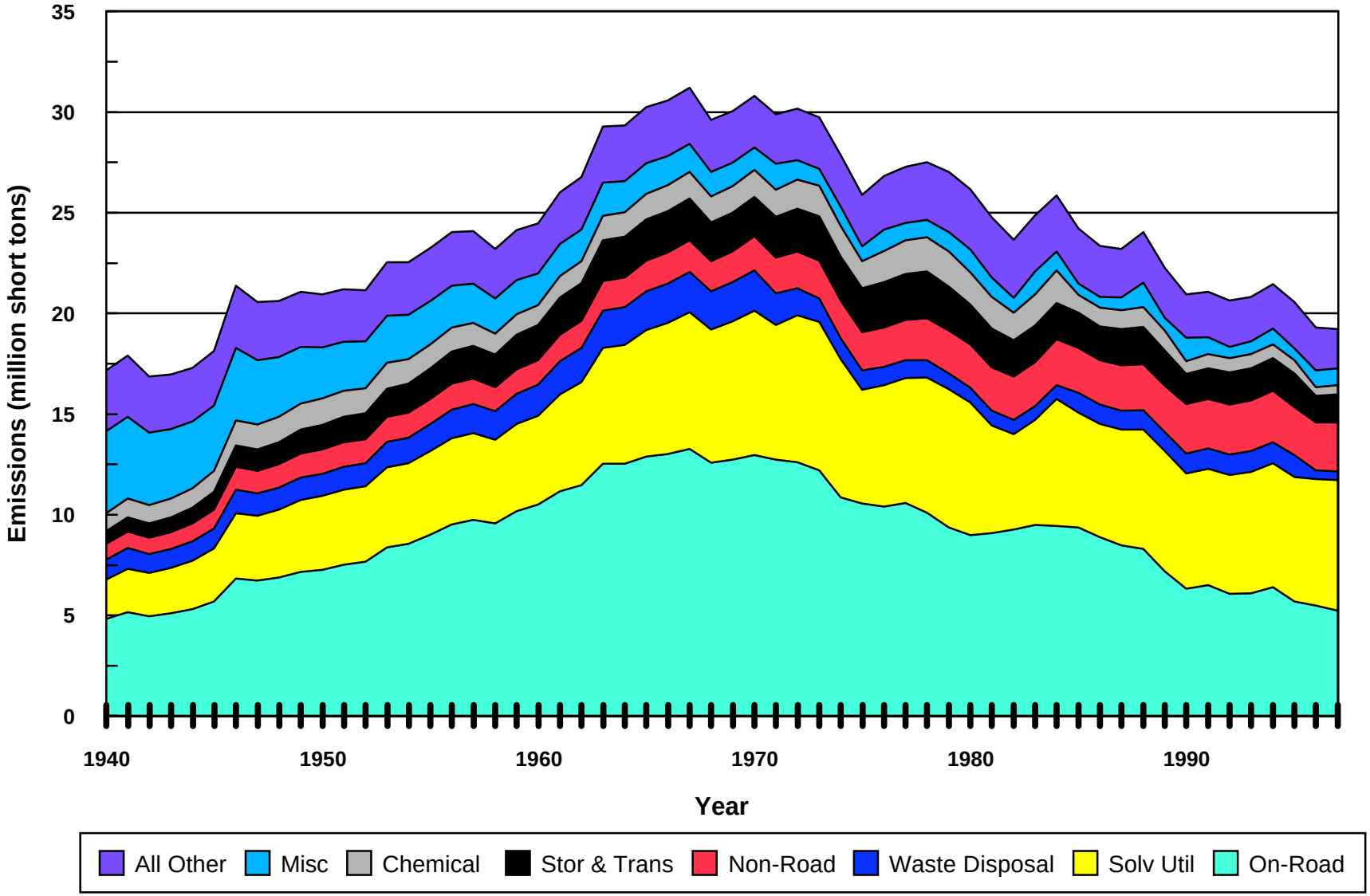


Figure 22. Trend in SULFUR DIOXIDE Emissions by 6 Principal Source Categories, 1940 to 1997
(reading legend left to right corresponds to plotted series from top to bottom)

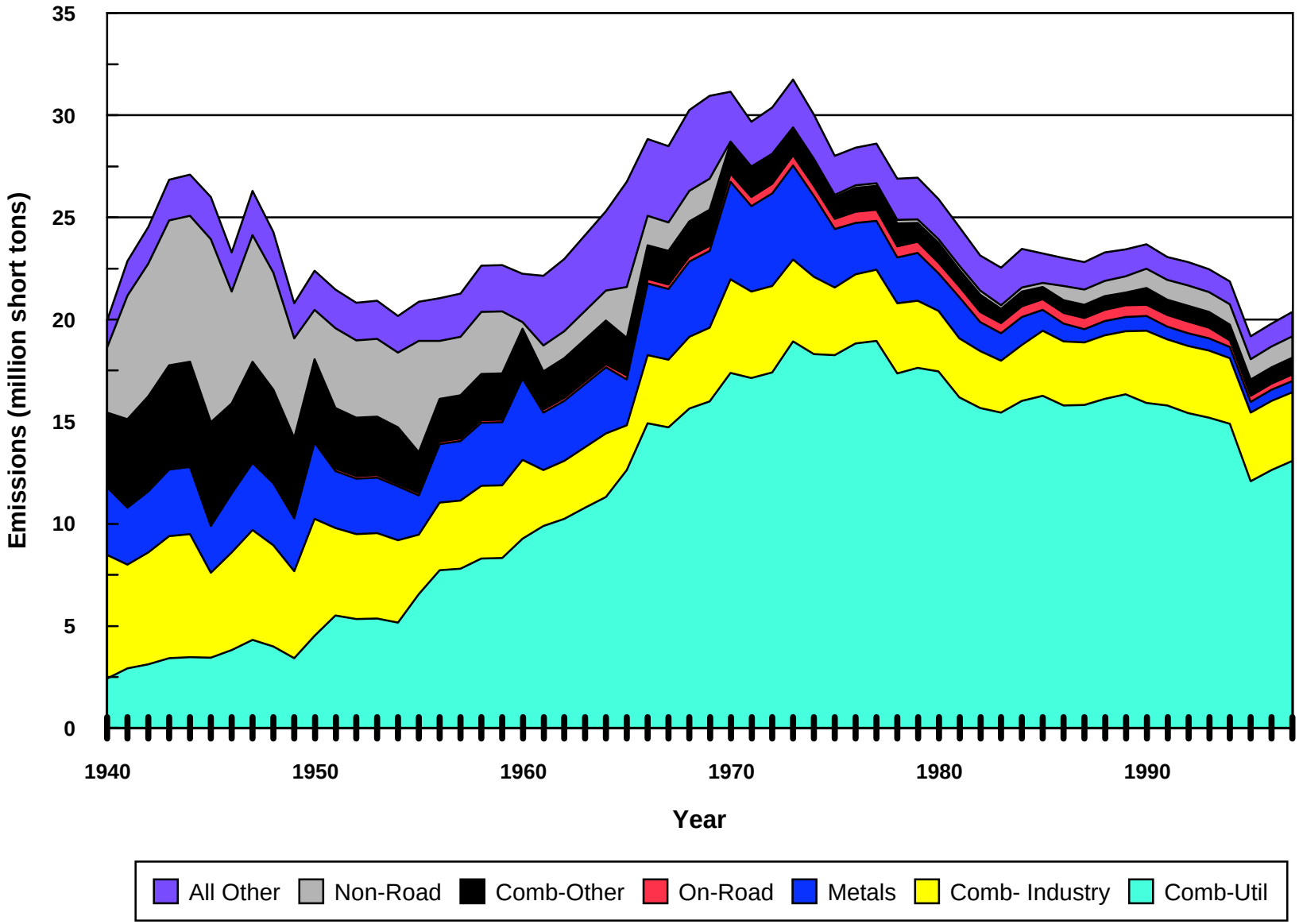


Figure 23. Trend in PARTICULATE MATTER (PM-10) Emissions by 7 Principal Source Categories Excluding Fugitive Dust Sources, 1940-1997

(reading legend left to right corresponds to plotted series from top to bottom)

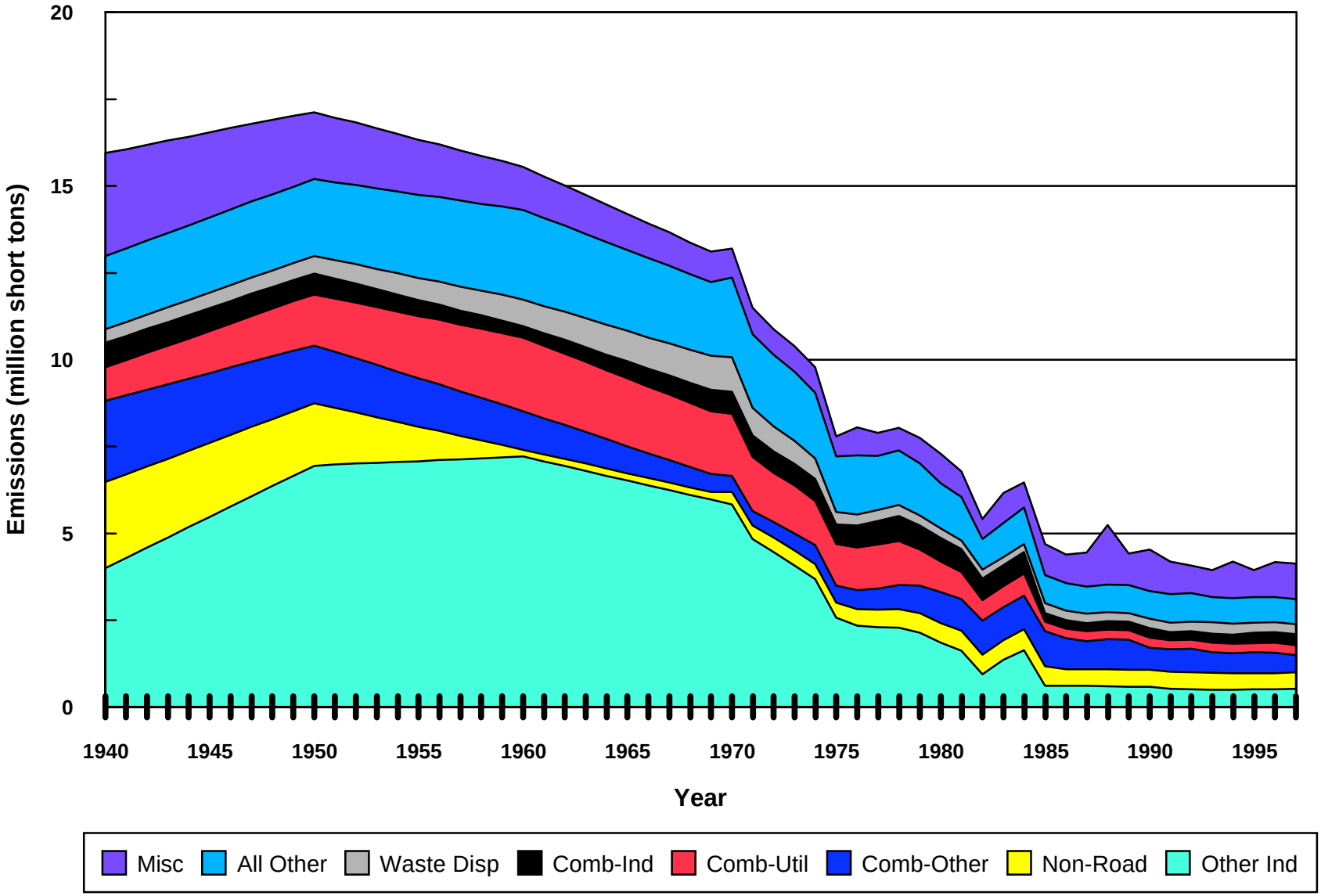
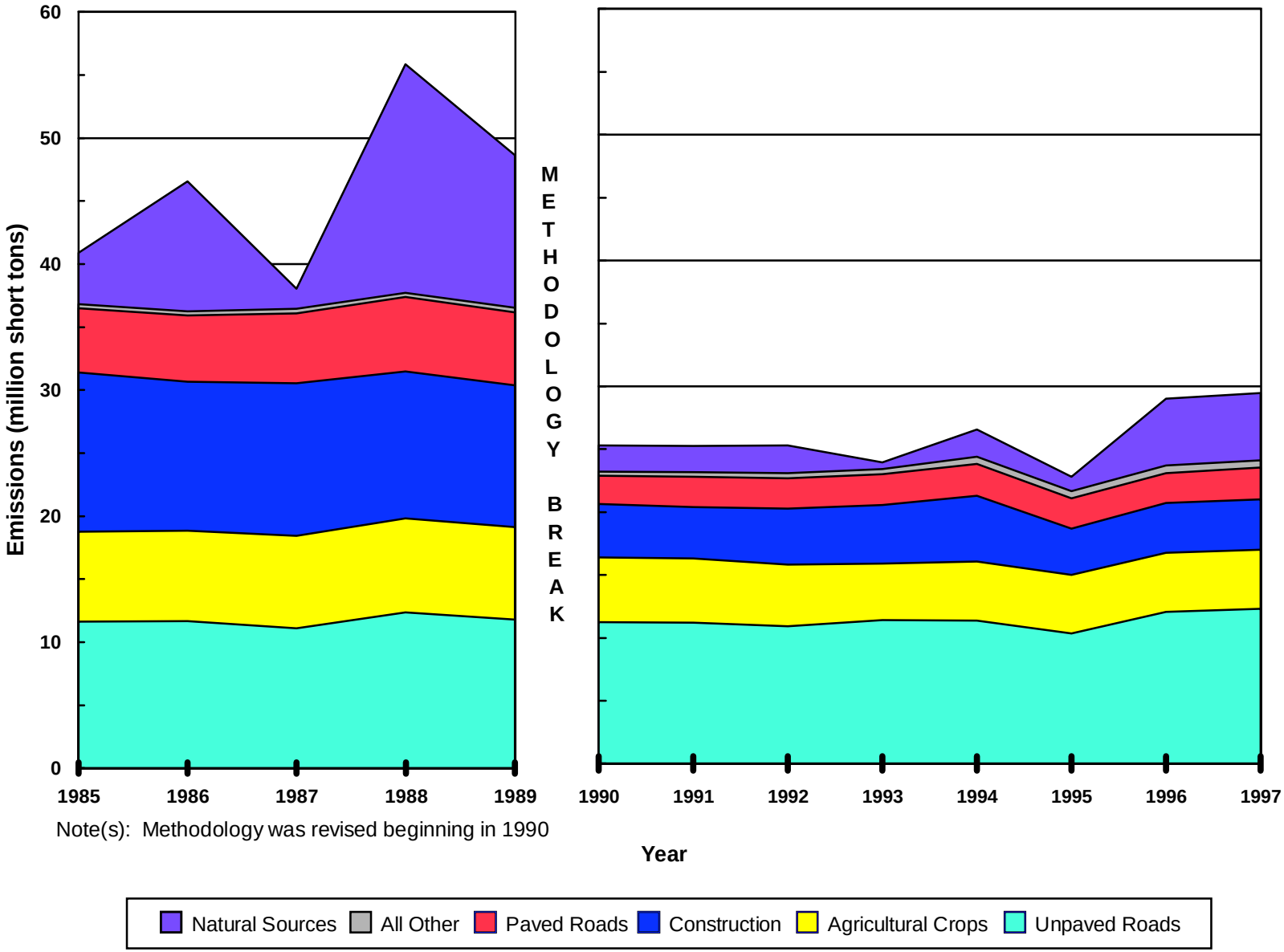


Figure 24. Trend in PARTICULATE MATTER (PM-10) Emissions by Fugitive Dust Source Category, 1985-1997

(reading legend left to right corresponds to plotted series from top to bottom)



Note(s): Methodology was revised beginning in 1990

Figure 25. Trend in LEAD Emissions by 5 Principal Source Categories, 1970-1997
(reading legend left to right corresponds to plotted series from top to bottom)

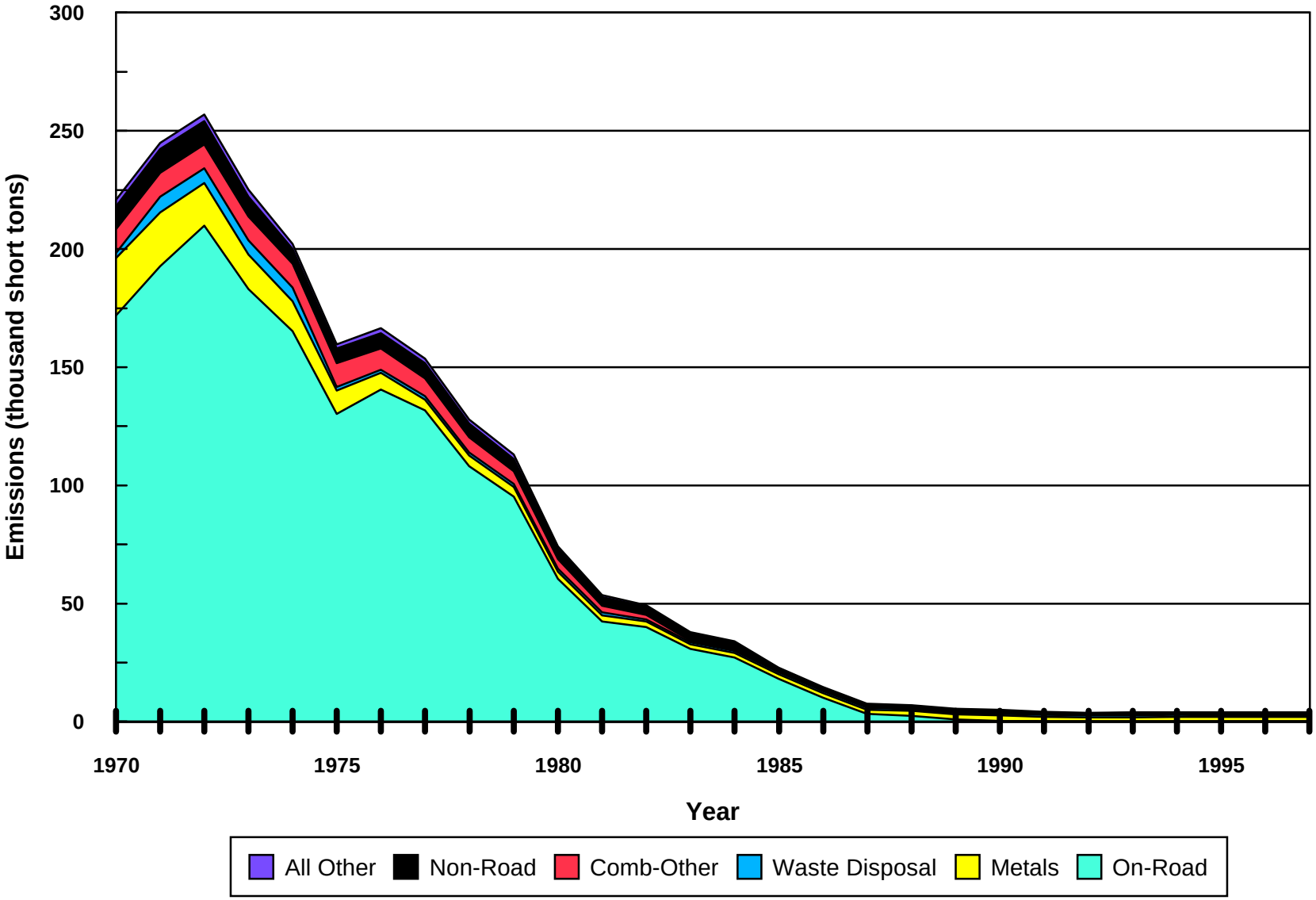


Figure 26. Trend in PARTICULATE MATTER (PM-2.5) Emissions by 7 Principal Source Categories Excluding Fugitive Dust Sources, 1990-1997

(reading legend left to right corresponds to plotted series from top to bottom)

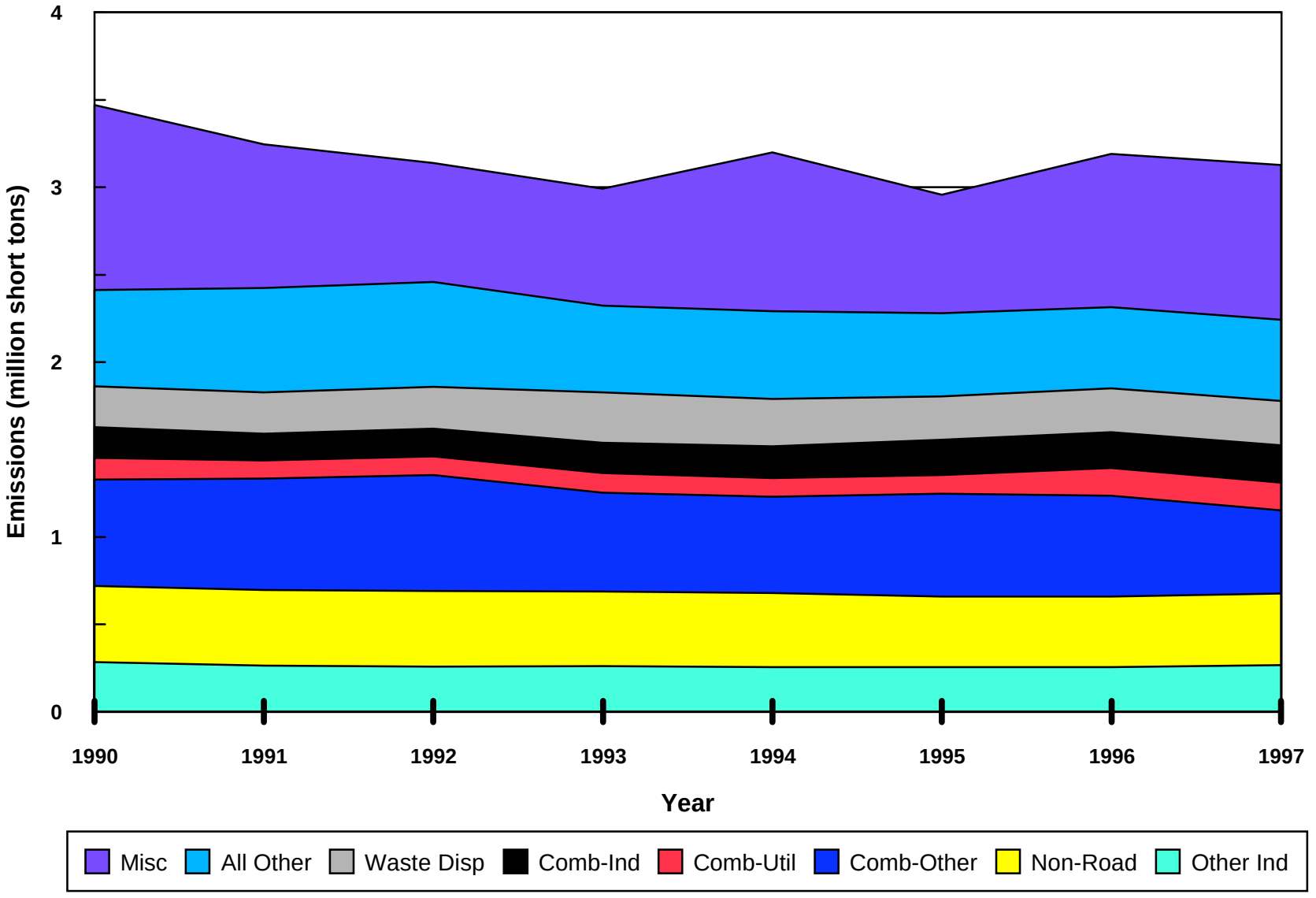


Figure 27. Trend in PARTICULATE MATTER (PM-2.5) Emissions Fugitive Dust Source Category, 1990-1997
(reading legend left to right corresponds to plotted series from top to bottom)

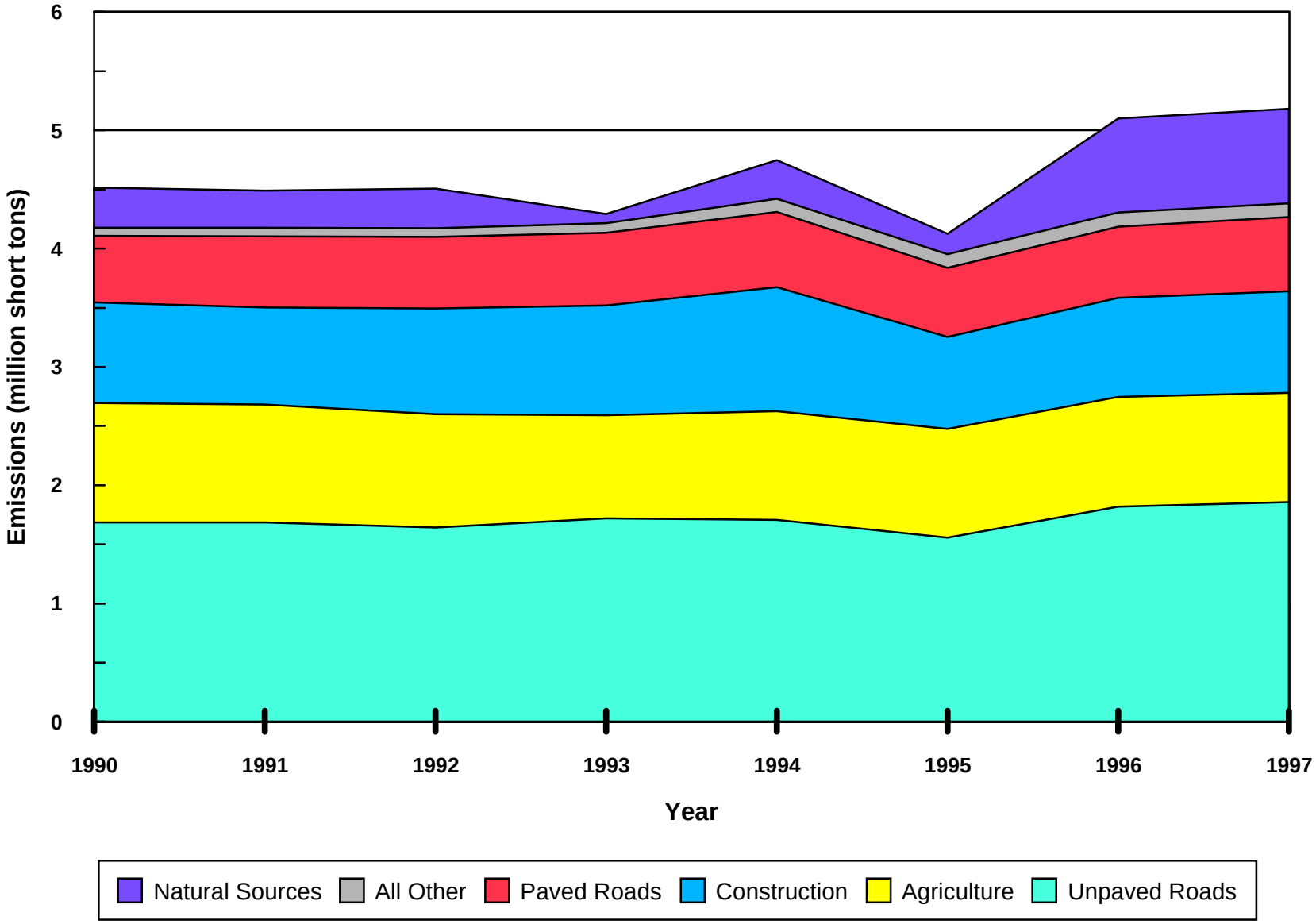


Figure 28. Trend in AMMONIA Emissions by 5 Principal Source Categories, 1990-1997
(reading legend left to right corresponds to plotted series from top to bottom)

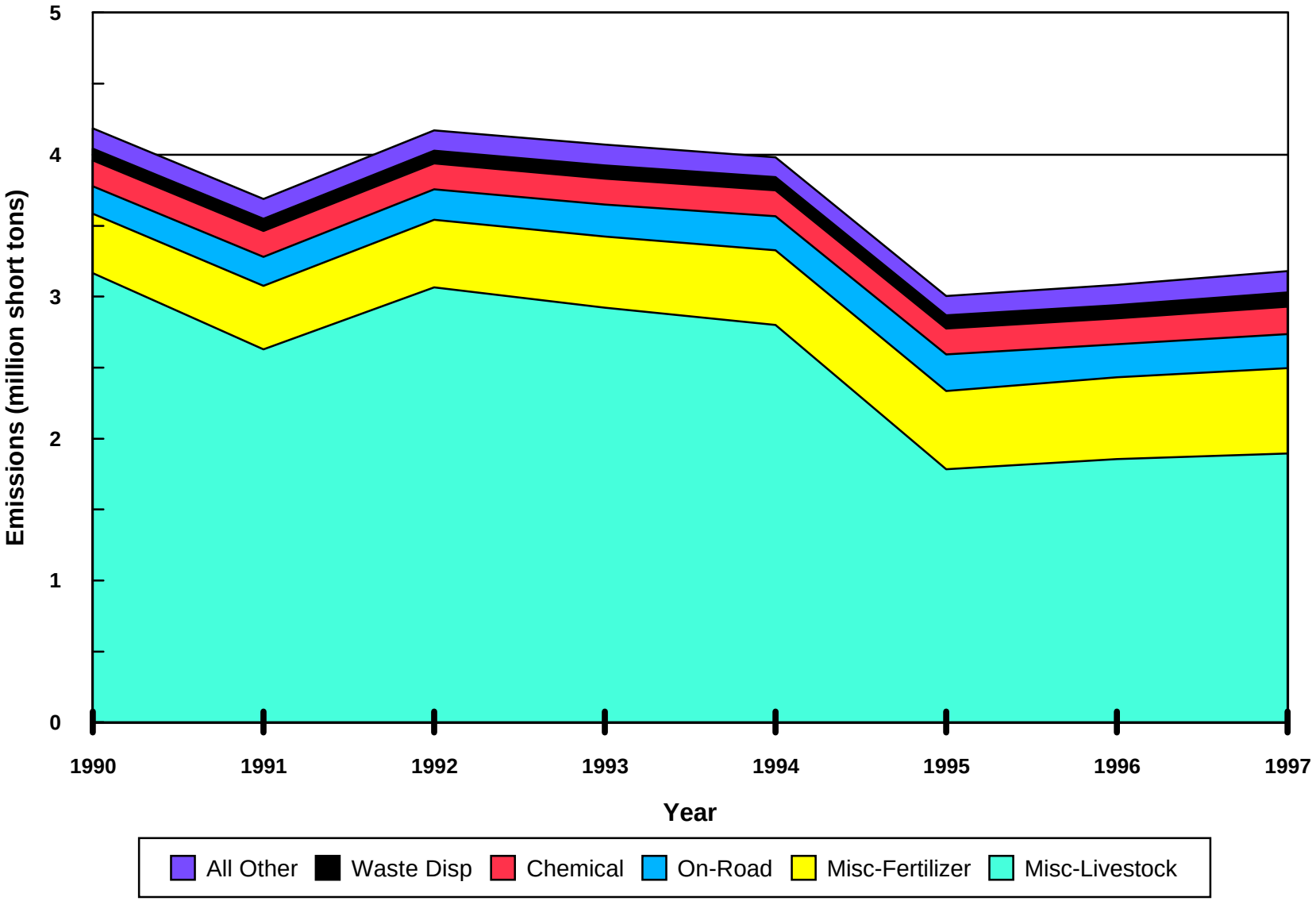
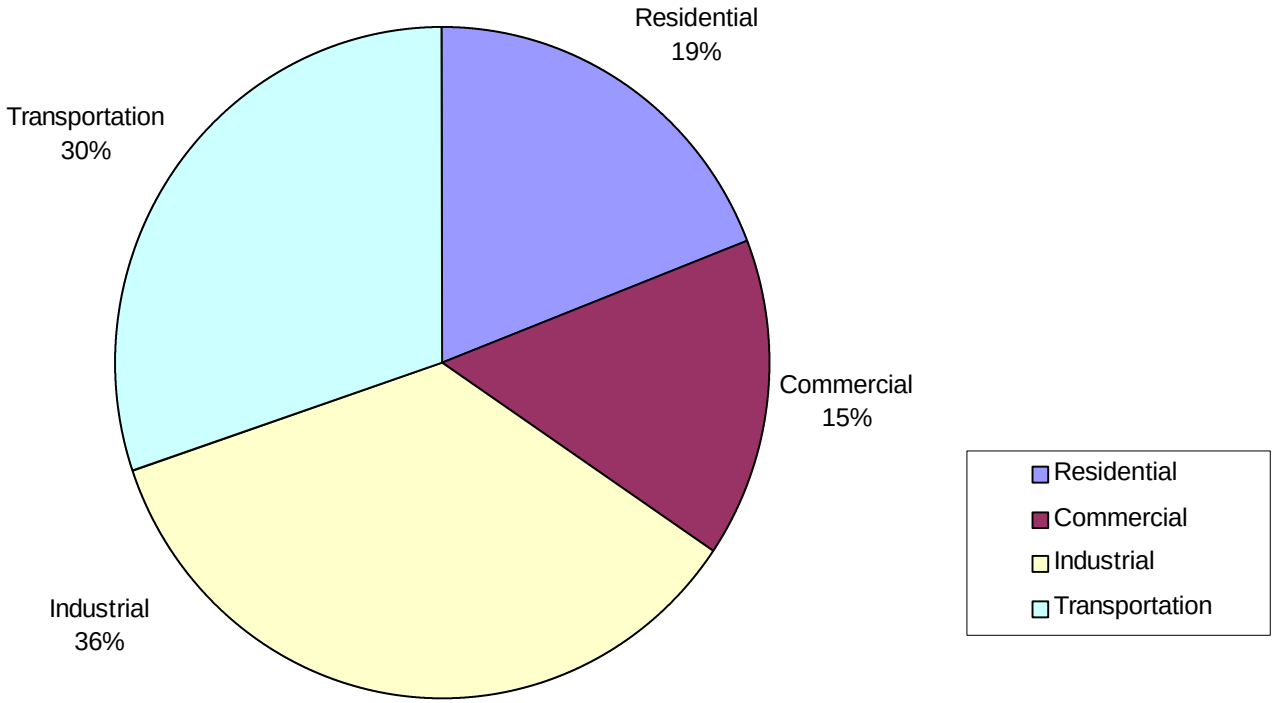


Figure 29. US Carbon Dioxide Emissions by End-Use Sector in 1994



Total CO2 emissions in 1994 were 1405 MMTCE. Carbon emissions from the utility sector have been apportioned to the appropriate end-use sector. The Industry Sector, as defined by EIA, includes manufacturing, agriculture, fisheries, forestry, construction,and mining operations.

Figure 30. US Carbon Dioxide Emissions by Sector (1994)

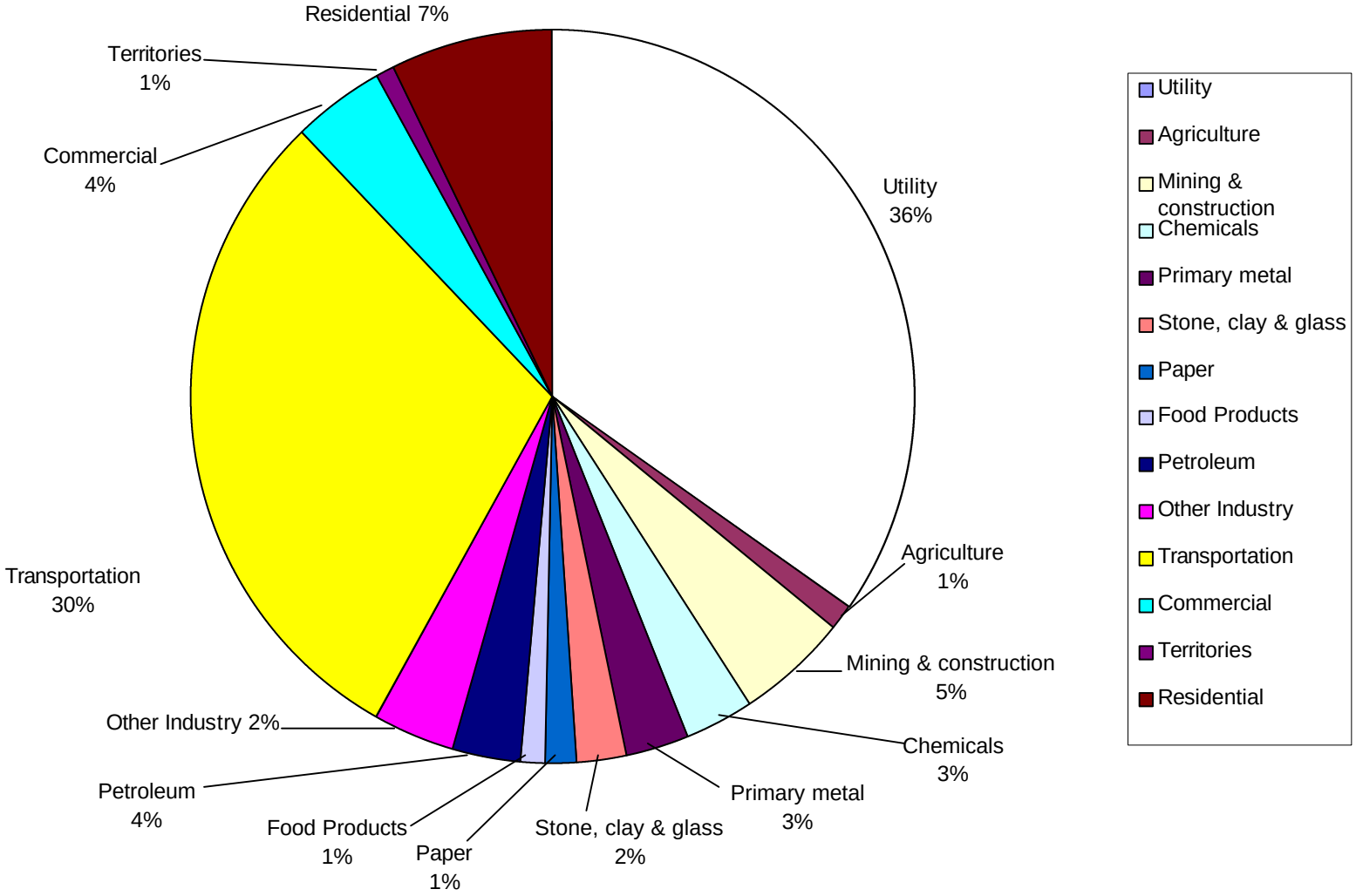
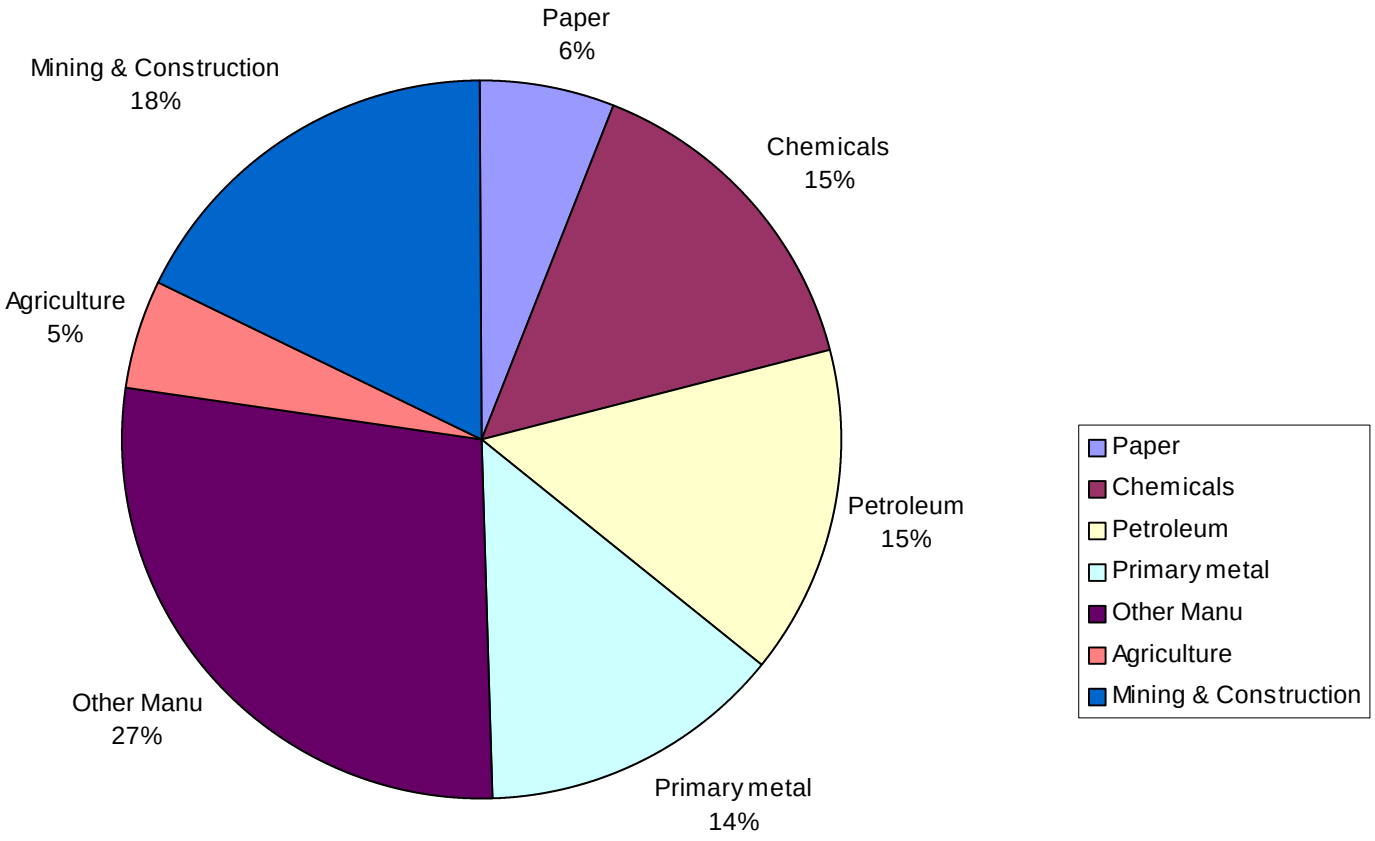


Figure 31. US Carbon Dioxide Emissions from Industry



Industry CO2 emissions (486 MMTCE) represented about 35% of total US CO2 emissions (1405) in 1994. This includes emissions from fuel combustion, process related emissions, and carbon emissions attributable to power generated offsite.

Figure 32. Carbon Dioxide Emissions in the US, 1994 (MMTCE)

Sector/Source category	Electricity	Petroleum	NG	Coal	still gas, Coke, other	Process CO2	Total	% of Industrial CO2 Emissions	% of Total CO2 Emissions	% of Total GHG Emissions
Agriculture	9.6	14.0	0.0	0.0	0.0	0.0	23.6	5%	2%	1%
Mining & construction	17.2	15.4	42.8	13.4	0.0	0.0	88.7	18%	6%	5%
Food Products	9.9	1.1	8.8	4.1	2.7	0.0	26.6	5%	2%	2%
Tobacco Products	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0%	0%	0%
Textile Products	5.6	0.4	1.6	1.0	0.3	0.0	9.1	2%	1%	1%
Apparel	1.3	0.0	0.3	0.0	0.0	0.0	1.8	0%	0%	0%
Lumber & wood	3.4	0.4	0.7	0.0	1.2	0.0	5.9	1%	0%	0%
Furniture & fixtures	1.1	0.0	0.3	0.1	0.3	0.0	1.8	0%	0%	0%
Paper	11.2	3.9	8.0	7.6	0.0	0.0	30.7	6%	2%	2%
Printing	3.0	0.0	0.7	0.0	0.0	0.0	3.8	1%	0%	0%
Chemicals	30.1	1.5	26.4	6.4	8.8	0.0	73.3	15%	5%	4%
Petroleum-Refining	10.2	2.7	0.0	0.0	41.9	0.0	73.3	15%	5%	4%
Rubber	7.5	0.3	1.5	0.1	0.1	0.0	9.5	2%	1%	1%
Leather	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0%	0%	0%
Stone, clay & glass	6.2	0.7	6.0	6.8	1.7	16.0	37.3	8%	3%	2%
Primary metal	28.8	1.2	11.2	1.3	24.8	0.0	67.3	14%	5%	4%
Fabricated metal	5.8	0.2	3.1	0.0	0.0	0.0	9.5	2%	1%	1%
Industrial machinery	5.5	0.1	1.5	0.3	0.1	0.0	7.6	2%	1%	0%
Electronic equip	5.7	0.1	1.2	0.0	0.0	0.0	7.8	2%	1%	0%
Transportation equip	6.6	0.4	2.1	0.7	0.4	0.0	10.4	2%	1%	1%
Instruments	2.3	0.1	0.0	0.6	0.0	0.0	4.3	1%	0%	0%
Misc manufacturing	1.0	0.0	0.3	0.0	0.0	0.0	1.6	0%	0%	0%
Industry Total	172.0	43.4	128.3	43.1	83.4	16.0	486.2	102%	35%	28%
Transportation	0.0	411.2	10.2	0.0	0.0	0.0	422.1		30%	25%
Commercial	153.0	14.9	42.9	2.1	0.0	0.0	214.1		15%	12%
Residential	166.9	25.3	71.8	1.4	0.0	0.0	268.6		19%	16%
Territories	0.0	11.0	0.0	0.0	0.0	0.0	0.0		0%	0%
Total	491.9	506.0	253.2	46.6	83.4	16.0	1405.0		100%	82%

Emssions in this table do not include methane and nitrous oxide emissions. The % of total GHG emssions is based on total US GHG emissions of 1,713 MMTCE in 1994. Zeros in the percent columns indicate less than one half of a percent total. When confidentiality concerns of individual data points, the columns may not add up to 100%. See the *Inventory of Greenhouse Gas Emissions and Sinks:* 1990-1997 for actual total emissions. Carbon emissions from the utility sector have been apportioned to the appropriate end-use sector.

Figure 33. National Toxic Emissions for 1993 NTI by Source Type

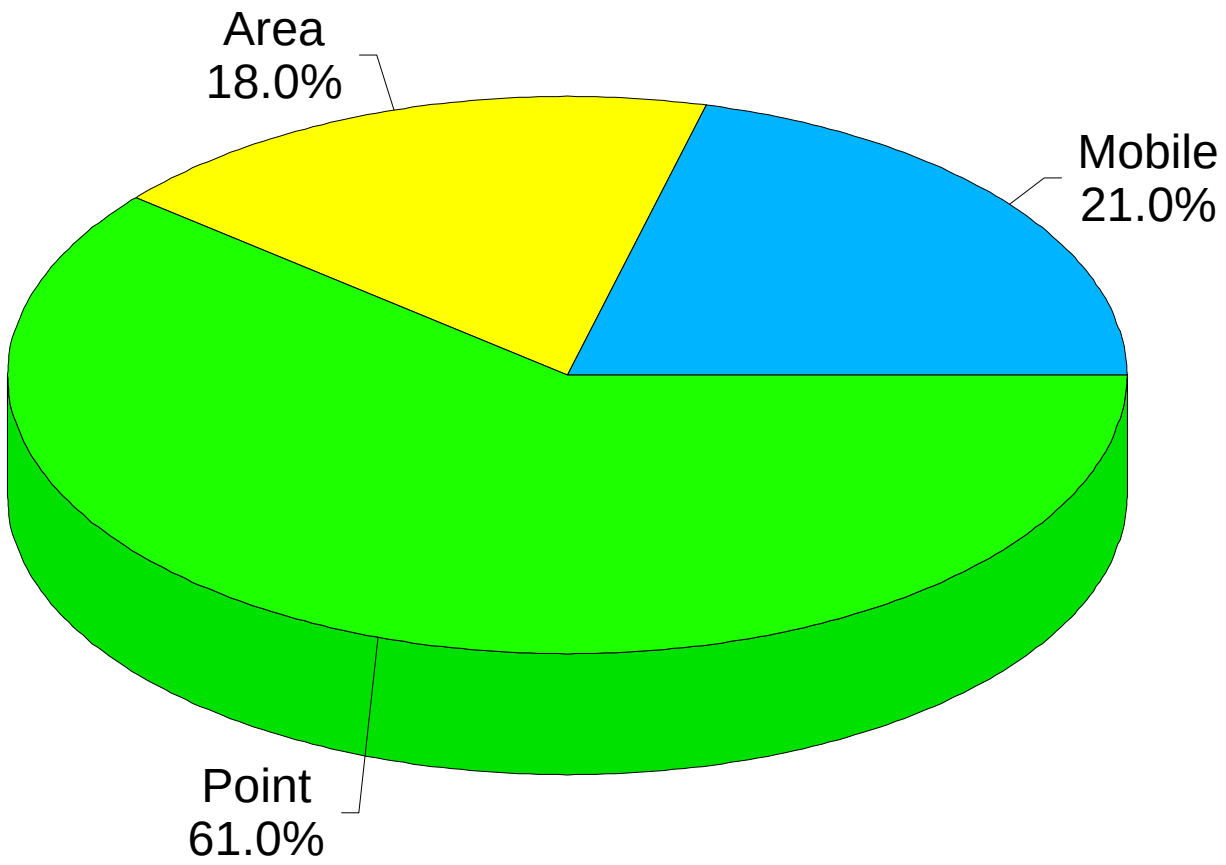


Figure 34. 1993 NTI Source Category Contributions for Selected States

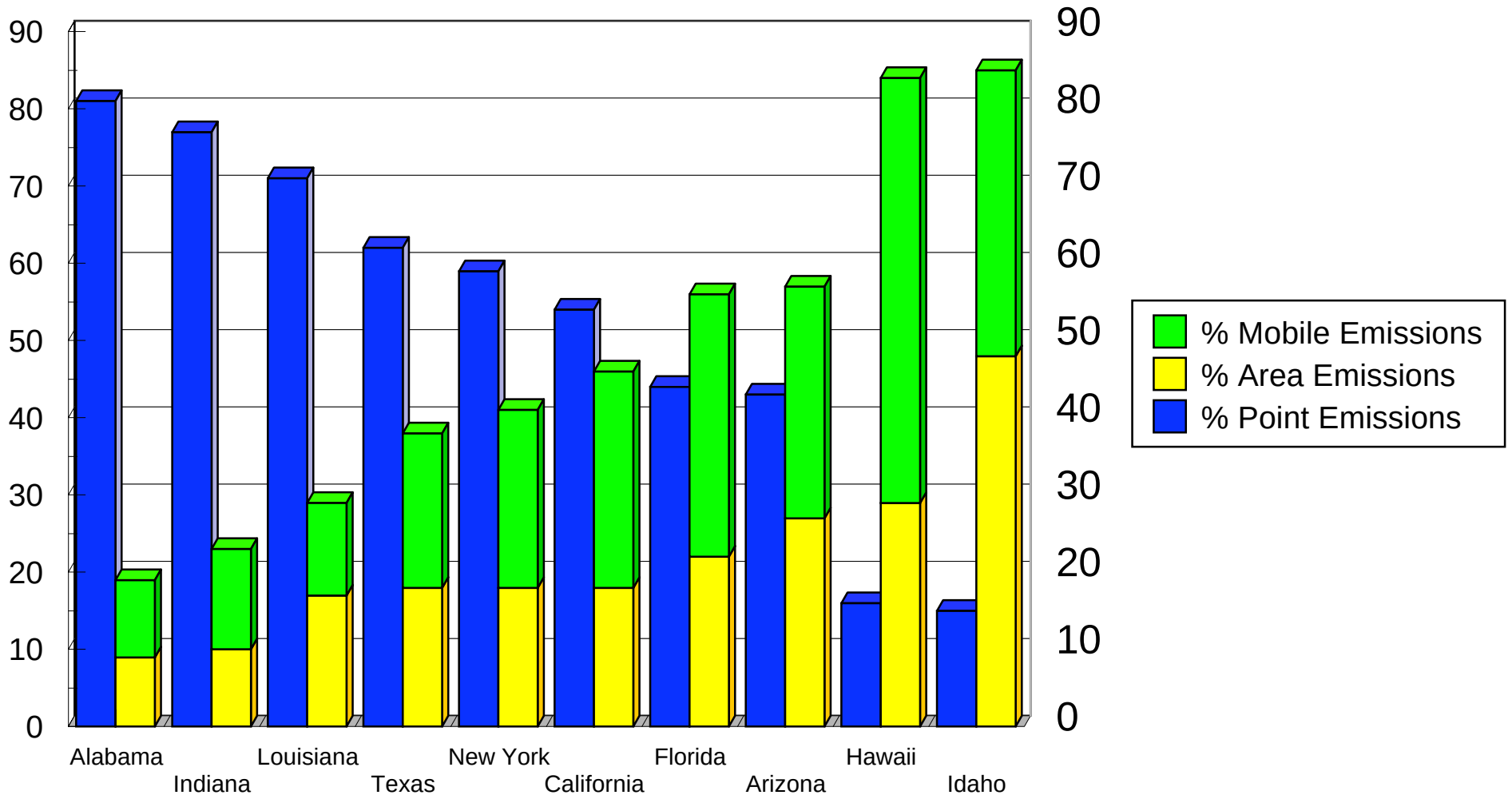
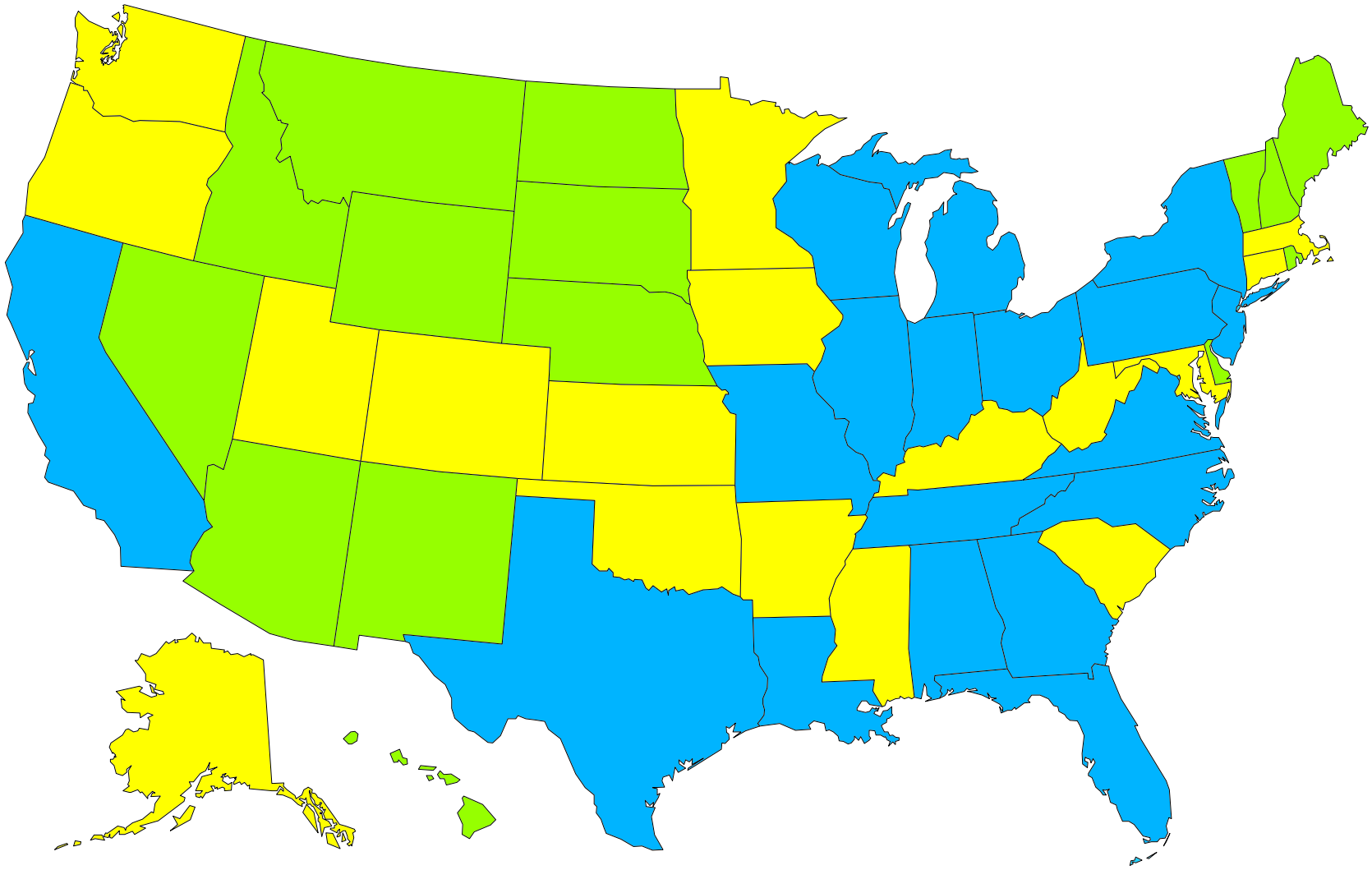


Figure 35. 1993 NTI State Emissions



Emissions greater than 167,000 tons/yr
Emisions between 77,000 - 167,000 tons/yr
Emissions less than 77,000 tons/yr

Figure 36. 1996 NTI State Data Summary